

```
List = []

def show_menu():
    print("[Menu Options]\n")
    print("1 - Add Items")
    print("2 - Search for an item")
    print("3 - Remove an item")
    print("4 - View all items (sorted)")
    print("0 - Exit Program")

def add_item():
    while True:
        item = input("Enter Item [x to quit]: ")
        if item.lower() == 'x':
            break
        List.append(item)

def search_item():
    item = input("Enter Item: ")
    if item in List:
        print("Found")
        count = List.count(item)
        print(f"{item} found {count}x in the list")

    else:
        print("Not found")

def remove_item():
    item = input("Enter Item: ")
    if item in List:
        print("Item found and removed")
        List.remove(item)
    else:
        print("Item not Found and deletion unsuccessful")

def view_items():
    List.sort()
    print(List)

choice = None
while choice != 0:
    show_menu()
    choice = int(input("Pick one [0 to quit]: "))
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    if choice == 1:
        add_item()
    elif choice == 2:
        search_item()
    elif choice == 3:
        remove_item()
    elif choice == 4:
        view_items()
    if choice <=1 and choice >=4:
        print("Invalid input")

print("Thank you!")

```

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C:\Users\COMLAB\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:\Users\COMLAB\PycharmProjects\pythonProject1\main.py
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 1
Enter Item [x to quit]: Egg
Enter Item [x to quit]: Bacon
Enter Item [x to quit]: x
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 2
Enter Item: Egg
Found
Egg found 1x in the list
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 3
Enter Item: Egg
Item found and removed
[Menu Options]

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1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 4
['Bacon']
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 0
Thank you!

Process finished with exit code 0
```